

# Thousand Springs Surface and Ground Water Users and Stakeholders Second Public Meeting

## ***“Development of Modeling Tools and Public Interfaces to be Used in the Implementation of Adaptive Management in the Thousand Springs Area”***

Dave Tuthill

December 1, 2003



# Discussion Outline

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- Introduction of Participants
- Purpose of the Meeting
- Background
- Phases
  - MikeBasin Model
  - Development of Public Interfaces
- What's Next
- Presentation by Carter Borden – MikeBasin Model
- Presentation by Kevin Ramsey – Public Interface

# Introduction of Participants

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- **IDWR Planning and Technical Services Division**
  - Hal Anderson, Administrator
  - Paul Castelin, Technical Services Bureau Chief
  - Sudhir Goyal, Project Leader
- **IDWR Water Management Division**
  - Tim Luke, Supervisor, Water Distribution Section
  - Steve Burrell, Engineer, Water Distribution Section
  - Steve Clelland, SRBA Investigator
  - Carter Fritschle, Water Resources Supervisor
  - Cindy Yenter, Watermaster, Water District 130
  - Frank Erwin, Watermaster, Water District 36-A

# Introduction of Participants

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## DHI Water and Environment

- Carter Borden, Contractor and Ph.D. Student, U of I

- University of Washington

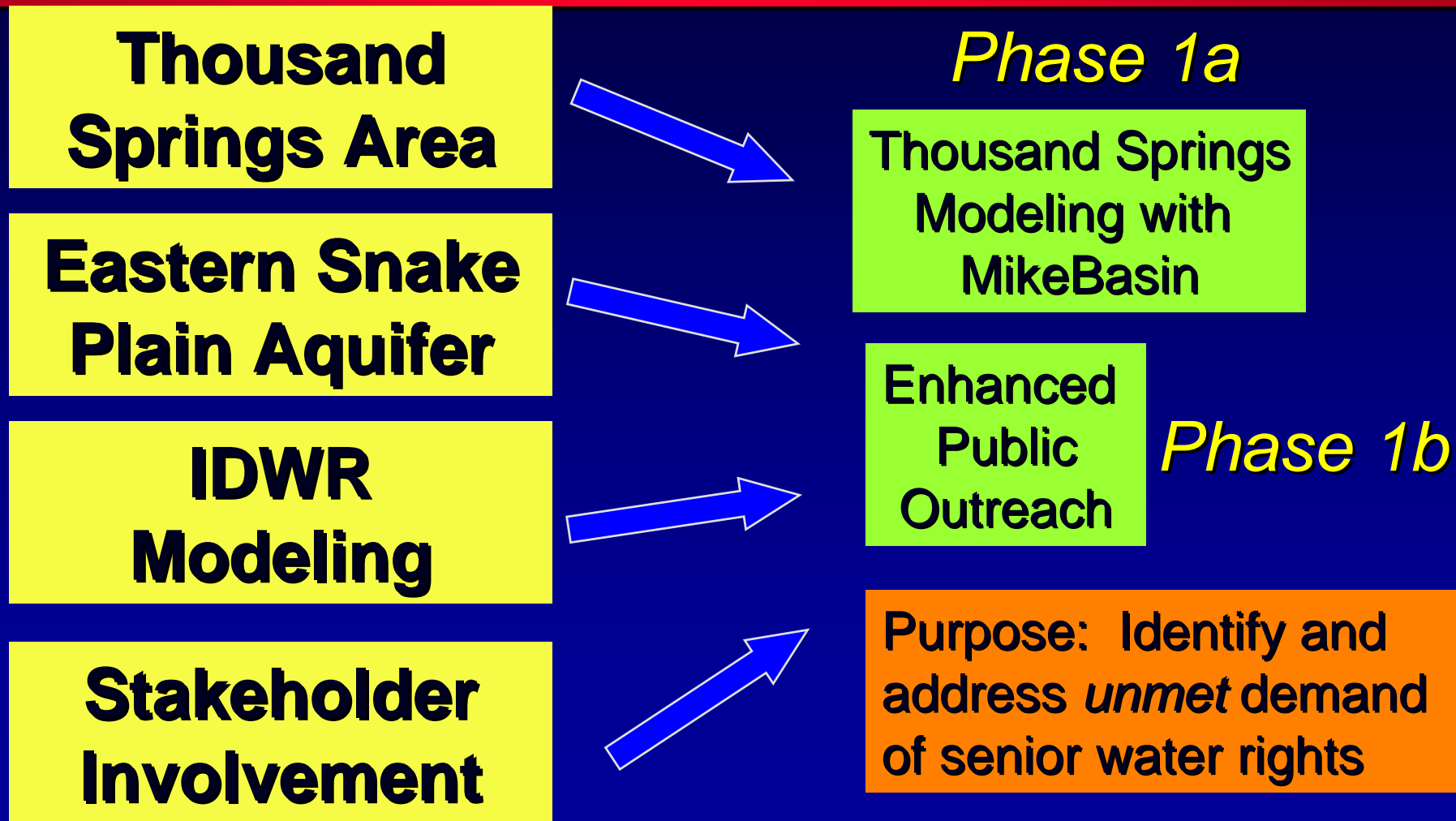
- Kevin Ramsey, M.S. Student, Dept. of Geography

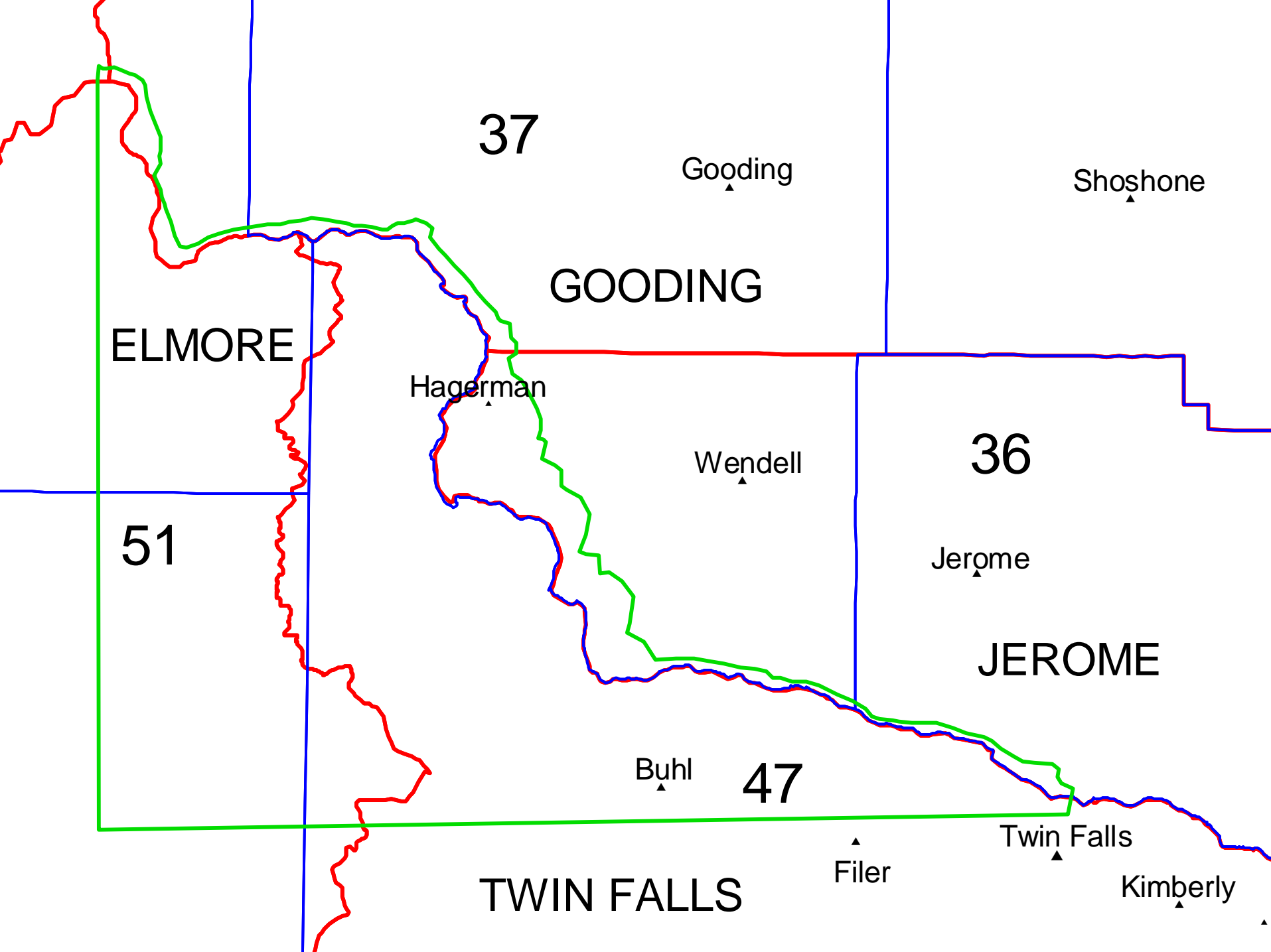
# Purpose of the Meeting

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- Share the continuing developments in our Thousand Springs research
- Receive input from you in this process
- This meeting will **not** address the preliminary mitigation plan submitted by the North Snake Ground Water District and the Magic Valley Ground Water District
  - See **[www.idwr.state.us](http://www.idwr.state.us)**

# Background







# Thousand Springs Area

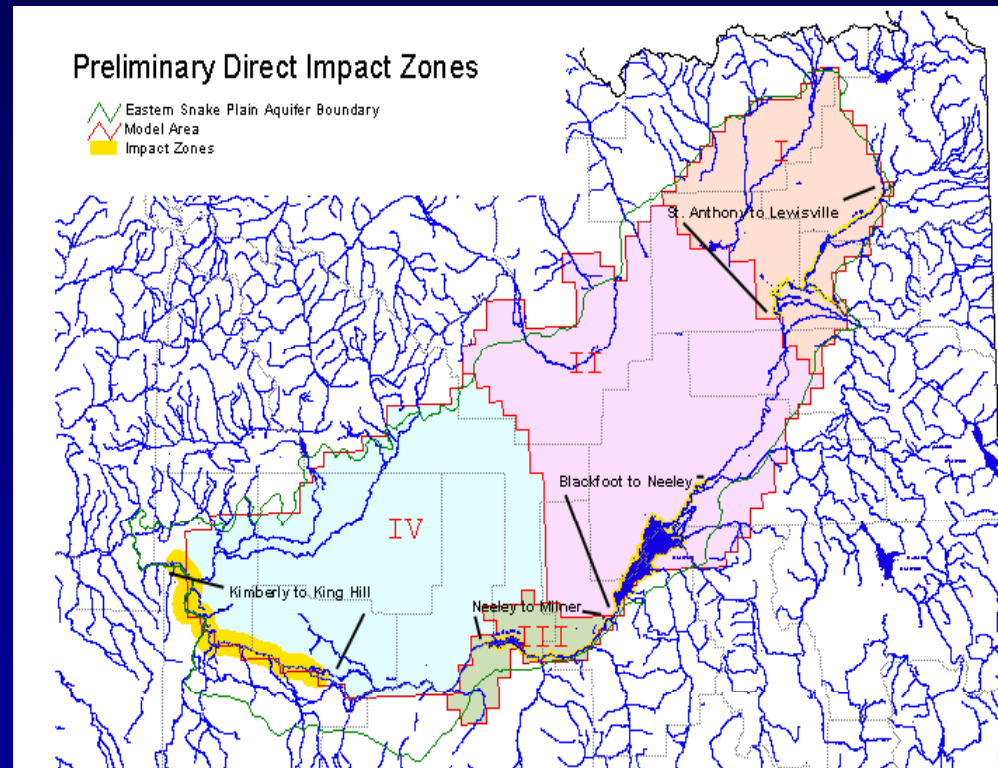
- Snake River Basin Adjudication largely complete in Basin 36 portion, being conducted in Basin 37 portion
- Some diversions have reported water shortages
- Flows in the Thousand Springs area are interconnected with the Eastern Snake Plain Aquifer





# Eastern Snake Plain Aquifer

- Flow of aquifer is generally southwesterly
- Diversions upgradient from Thousand Springs impact flows in the Thousand Springs area, to some extent
- Reduction in flow does not necessarily constitute injury



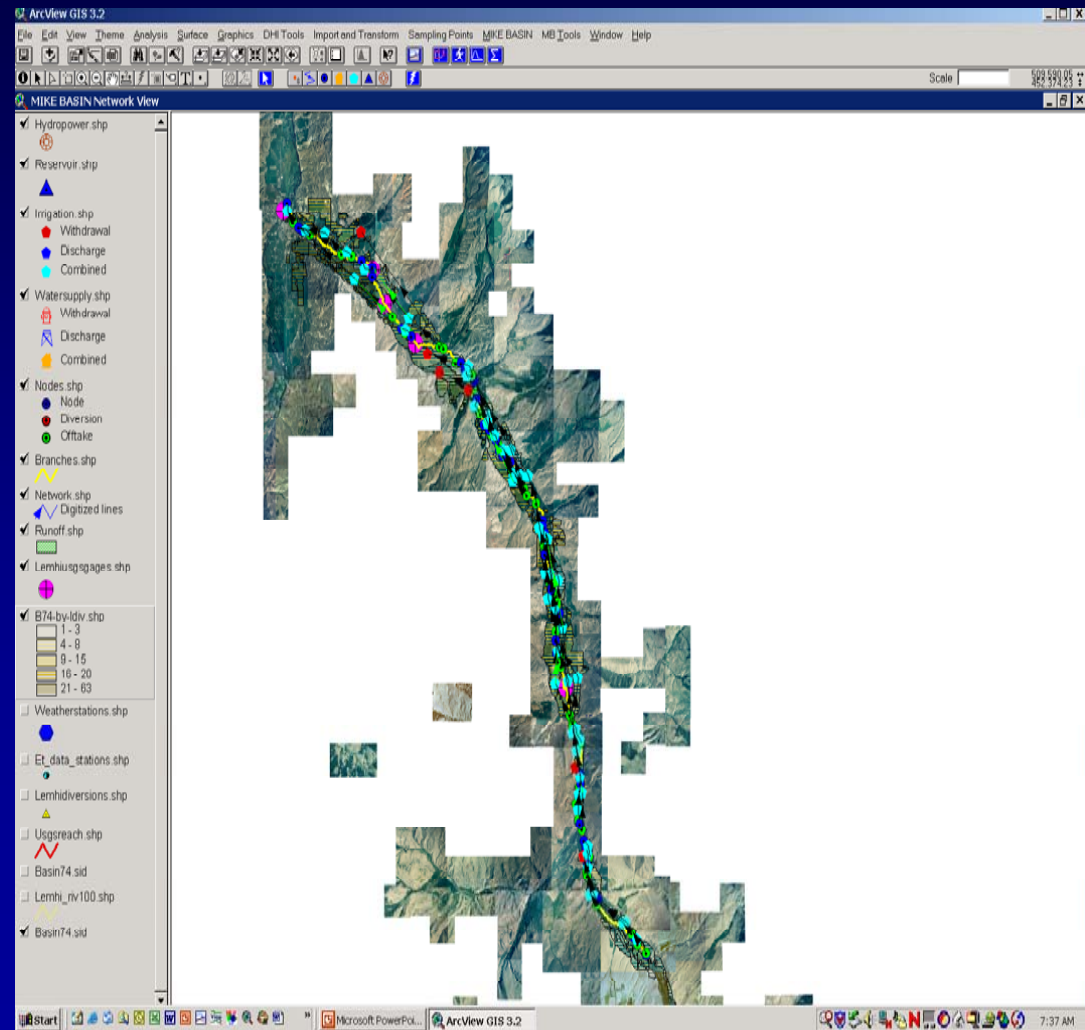
# Recent Project Example



- North Snake Ground Water District
- Hagerman Valley Mitigation Pipeline
- Total Project: \$986,000

# IDWR Modeling

- IDWR develops and maintains many types of models
- It appears that the MikeBasin model has utility in the Thousand Springs Area
- This model has been used successfully by IDWR in other basins (e.g. Lemhi and Upper salmon)

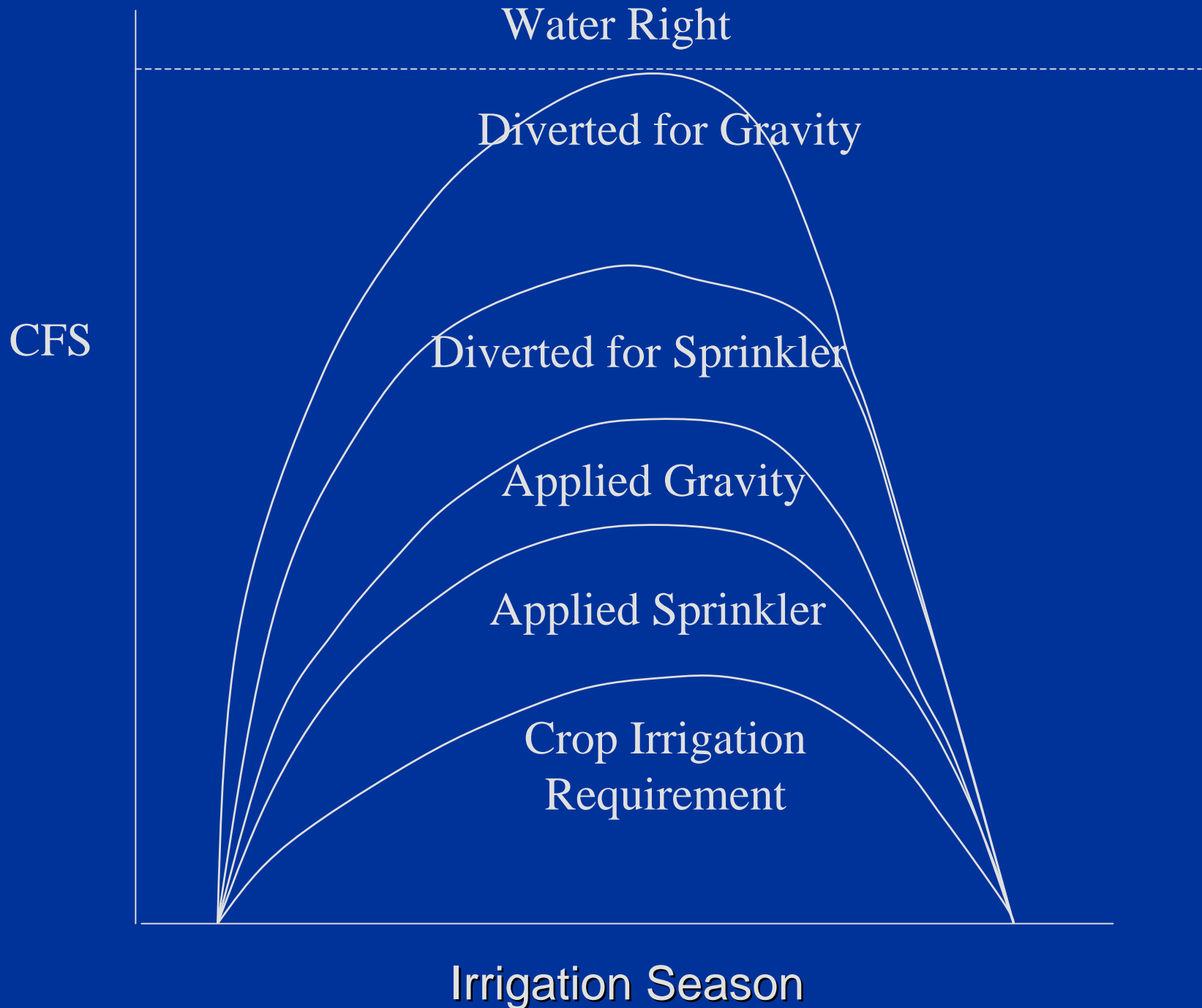




# Stakeholder Involvement

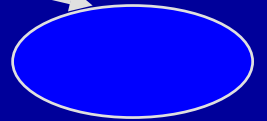
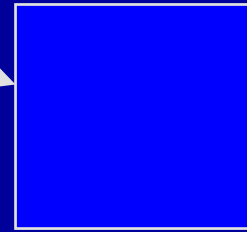
- IDWR experience is that involvement of stakeholders improves the water management **process** and **outcome**





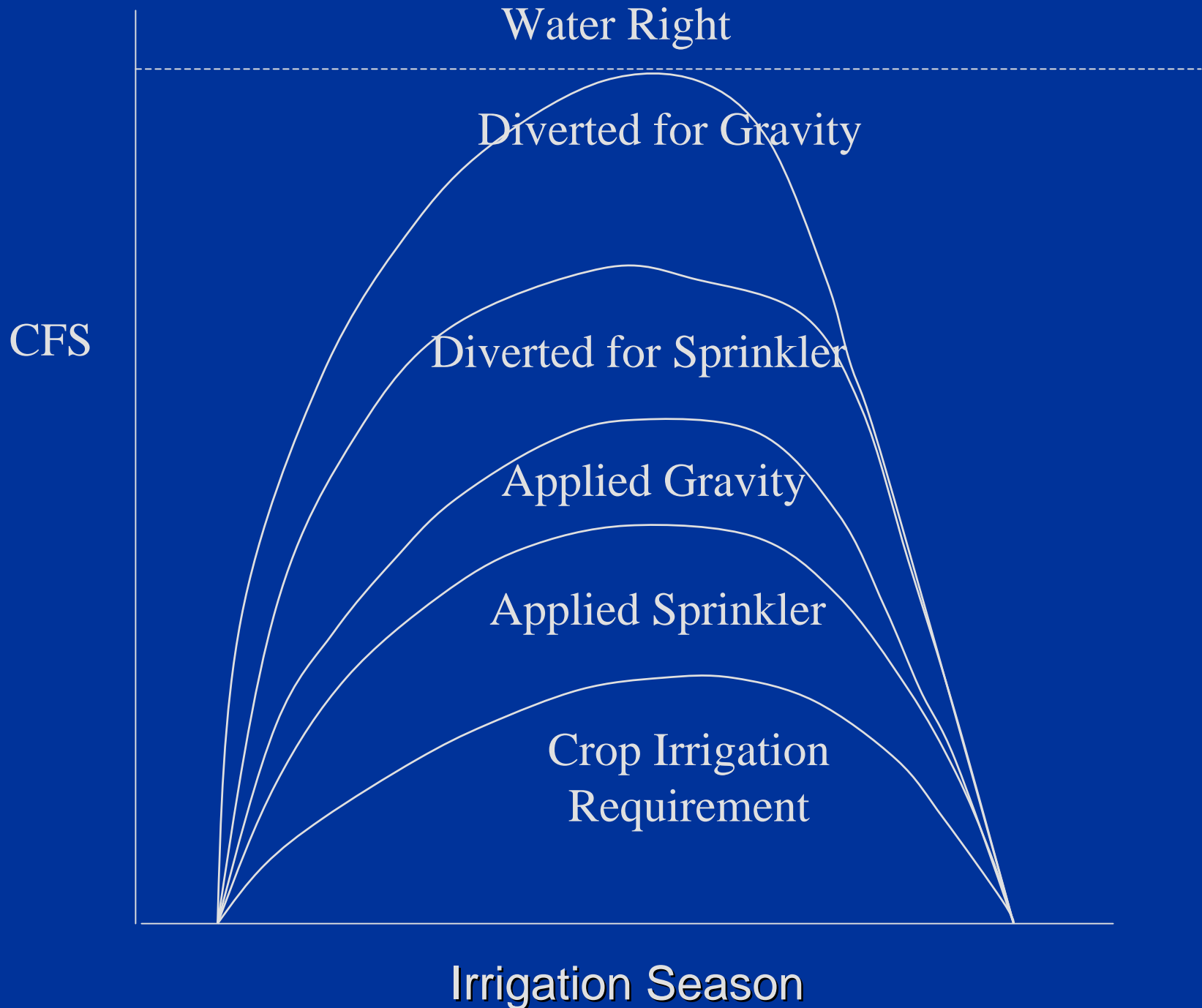
There will likely be times during the irrigation season when diversion under the irrigation water right cannot occur

2 cfs irr 1880



2 cfs fish prop 1970





# Two Phases of Implementation

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- Phase 1a
  - Construct MikeBasin Model
- Phase 1b
  - Enhance Public Interface

# Timeline

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- **May 2003**

- **Karl Dreher announces at a Water District 130 Mitigation Meeting an initiative for Phases 1a and 1b**

- **Summer 2003**

- **Phase 1a: Contract drafted and funding sought**
- **Phase 1b: Investigation conducted**

- **Fall 2003**

- **Phase 1a: Funding secured, work begins**
- **Phase 1b: Work products developed**

# Timeline (cont.)

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- **Winter 2003-2004**

- **Phase 1a: Stakeholder input gathered and Model developed**
- **Phase 1b: Work products finalized**

- **Spring 2004**

- **Phase 1a: Model completed and promulgated**
- **Phase 1b: Thesis written**

# Future Steps

- **Adaptive Management – a step by step approach for improvement of management over time**
- **Summer 2004**
  - **Use model to assist with water management**
    - ✦ **Provide additional data points where required**
    - ✦ **Interface between Water District 36A Watermaster and IDWR**
  - **Use public interface tools to assist with information dissemination**
- **Unspecified timing**
  - **Develop interface between ESPA model and surface water model (Phase 2)**

# Questions?

